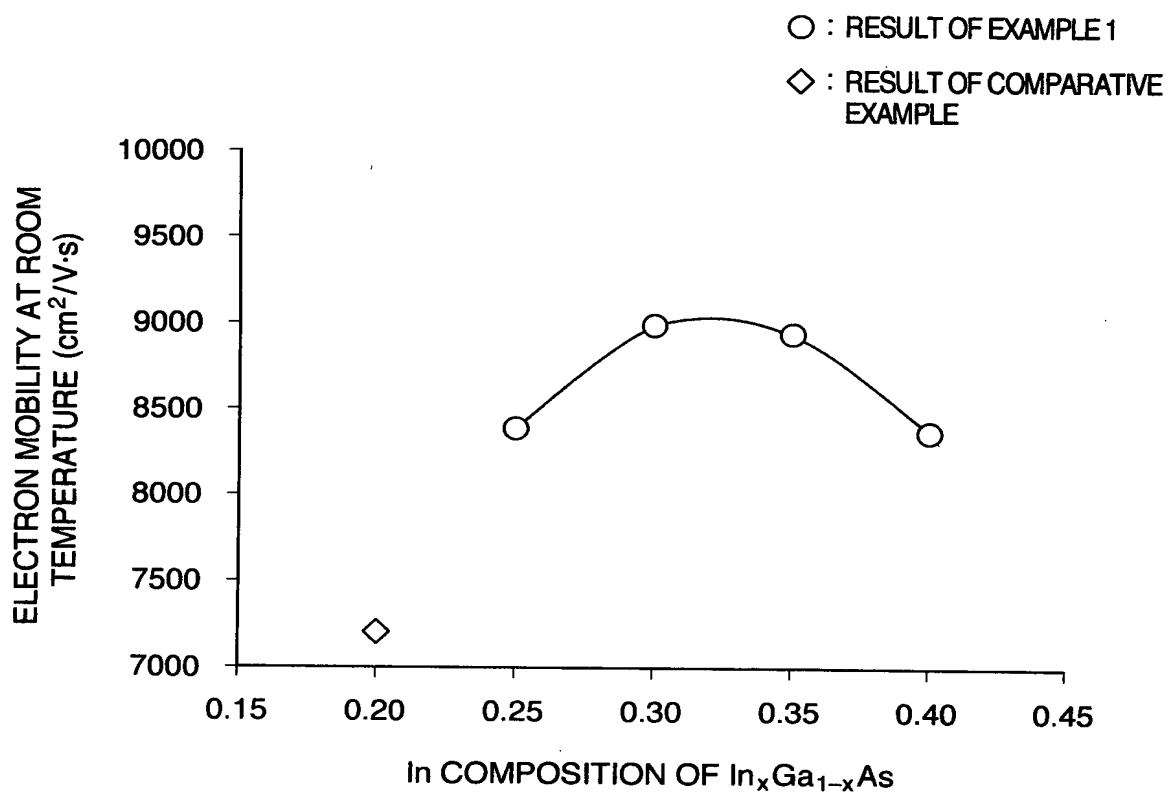


FIG. 1

i- GaAs 20nm	14
i- Al _{0.22} Ga _{0.78} As 3nm	13
n- Al _{0.24} Ga _{0.76} As 10nm 3E18/cm ³	12
i- Al _{0.24} Ga _{0.76} As 3nm	11
i- GaAs 6nm	10
i- In _{0.30} Ga _{0.70} As 7.5nm	9
i- GaAs 6nm	8
i- Al _{0.24} Ga _{0.76} As 3nm	7
n- Al _{0.24} Ga _{0.76} As 4nm 3E18/cm ³	6
i- Al _{0.25} Ga _{0.75} As 200nm	5
i- GaAs 250nm	4
i- Al _{0.25} Ga _{0.75} As 250nm	3
i- GaAs 200nm	2
GaAs SINGLE CRYSTAL SUBSTRATE	1

FIG. 2



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FIG. 3

i- GaAs 20nm	34
i- Al _{0.22} Ga _{0.78} As 3nm	33
n- Al _{0.24} Ga _{0.76} As 10nm 3E18/cm ³	32
i- Al _{0.24} Ga _{0.76} As 3nm	31
i-GaAs 6nm	30
i- In _{0.35} Ga _{0.65} As 5.5nm	29
i-GaAs 6nm	28
i- Al _{0.24} Ga _{0.76} As 3nm	27
n- Al _{0.24} Ga _{0.76} As 4nm 3E18/cm ³	26
i-Al _{0.25} Ga _{0.75} As 200nm	25
i-GaAs 250nm	24
i-Al _{0.25} Ga _{0.75} As 250nm	23
i-GaAs 200nm	22
GaAs SINGLE CRYSTAL SUBSTRATE	21

FIG. 4

i- GaAs 20nm	54
i- Al _{0.22} Ga _{0.78} As 7nm	53
n- Al _{0.24} Ga _{0.76} As 10nm 3E18/cm ³	52
i- Al _{0.24} Ga _{0.76} As 3nm	51
i-GaAs 2nm	50
i- In _{0.20} Ga _{0.80} As 13.5nm	49
i-GaAs 2nm	48
i- Al _{0.24} Ga _{0.76} As 3nm	47
n- Al _{0.24} Ga _{0.76} As 4nm 3E18/cm ³	46
i-Al _{0.25} Ga _{0.75} As 200nm	45
i-GaAs 250nm	44
i-Al _{0.25} Ga _{0.75} As 250nm	43
i-GaAs 200nm	42
GaAs SINGLE CRYSTAL SUBSTRATE	41